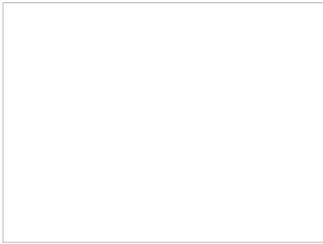


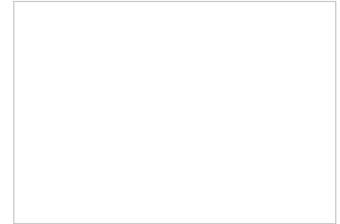
Identification sensor platform for CANopen

Sick (Germany) has developed the IDpro platform for identification devices independent of the implemented sensor technology. The platform comprises the RFH600/RFU600 RFID devices, the Lector600 camera-based code readers, and the CLV600 bar-code scanners. All these sensors families are available with the company's own CSN (CAN sensor network) protocol or CANopen interfaces.

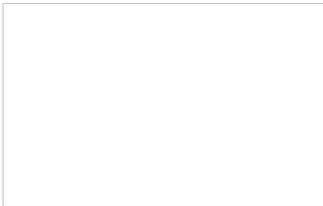


THE CANopen IMPLEMENTATION USE SDO COMMUNICATION and is supported by IEC 61131-3 function blocks (for PLCs running Codesys). The platform idea simplifies changing identification technologies. The integration into machine networks is always similar. "To help the user to choose the ideal identification technology, we will provide comprehensive information to determine the best technology choice," promised the provider. "As the market leader with the largest number of worldwide installations, we have the experience and widest range of solutions that provide maximum uptime and reduced costs."

The RFU630 is an industry-oriented compact device with an integrated antenna and, if required, up to three external antennae can be connected. Its properties make the device suitable for solving tasks in factory automation (e.g. the identification or distribution of car body parts) and logistics automation (e.g. pallet identification or yard logistics). Several passive transponders can be detected



simultaneously in a group thanks to multi-ident and anti-collision features. Whereby all data carriers that comply with the EPCglobal and ISO 18000-6 standards are reliably detected. The RFU630 is currently available in two variants - for use in Europe and the USA. Whether in production plants, on stationary conveyor systems, or in picking areas and distribution centers, the RFU630 is suitable for detecting objects labeled with transponders in goods flows. Configuration takes place using the Sopas parameterization tool with its auto-ID function. Application-specific software can be integrated in the reader. Up to three external antennae can be connected, in addition to the integrated antenna. Integrated digital inputs, e.g. for a trigger photoelectric sensor, can be flexibly parameterized to control particular actions. Freely definable outputs can be used, for example, to display read results or to control actuators. As a member of the IDpro family it features CANopen connectivity.



Already in 2009 introduced, the CLV600 series of bar-code scanners provides a similar CANopen interface. The 1,2-kHz laser scanner is able to work with conveying speeds of up to 6 m/s. The CLV650 is the high-end device in the series. For instance, in the reading field from 200 mm to 1600 mm, the scanner features real-time autofocus with integrated distance measurement function. The scanners are configurable as the other IDpro devices by means of a software tool. The Sopas programming interface supports CAN communication (e.g. SDO services for CANopen). Besides CANopen, they are also available with a DeviceNet interface. Due to their suitability for networking, the scanners provide the opportunity of remote maintenance - via the RDT400 remote diagnostics tool. The integrated CAN communication is accompanied by an Ethernet-TCP/IP interface. Configurable filter and sorting functions allow data output in the desired format. The algorithms for code reconstruction improve reading results for weakly contrasting, dirty or damaged bar codes. The CLV630 is available as an oscillating mirror version for tasks in which the code must be "searched for" in a large area on

an object.